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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,416	01/27/2004	Jean-Michel Larrieu	BDL-446XX	2182

207 7590 10/25/2005

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EXAMINER

WALBERG, TERESA J

ART UNIT	PAPER NUMBER
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3753

DATE MAILED: 10/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/765,416	Applicant(s) LARRIEU ET AL.	
	Examiner Teresa J. Walberg	Art Unit 3753	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 August 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 11-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-10 is/are rejected.
- 7) ☒ Claim(s) 6 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The amendments to the abstract have been entered and the objection to the abstract is withdrawn.

2. Claims 11-25 are withdrawn from further consideration pursuant to 37 CFR

1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on January 27, 2005.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 3, 4, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vidal et al (6,397,581).

Vidal et al discloses an active cooling panel (Fig. 1) including parts (12, 14, 18) made of thermostructural composite materials (col. 3, lines 16-20 and 41-47) each having inside and outside faces (see Fig. 1), channels formed by indentations in an inside face of at least one of the parts (col. 3, lines 8-14), the panel including a sealing layer in the form of a thin metal layer (col. 3, lines 54-61) situated at a distance from the assembled faces (the metal coating on the

Art Unit: 3753

support structure referred to at col. 3, line 56), the parts being bonded together by brazing (box 29 in Fig. 2).

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vidal et al (6,397,581) in view of Giannetti et al (5,520,976).

Vidal et al disclose an active cooling panel having the claimed structure with the exception of the metal coating being formed of one of the specified materials.

Giannetti et al disclose applying a metal coating to a composite cooling panel layer. See Col. 7, lines 55-62.

It would have been obvious in view of Giannetti et al to use nickel as the coating metal in the cooling panel of Vidal et al, the motivation being to use a metal that is less expensive and readily available.

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vidal et al (6,397,581) in view of Buckreus (5,154,352).

Vidal et al disclose an active cooling panel having the claimed structure with the exception of the channels being formed on the inside face of the part whose outside face is exposed to high temperatures.

Buckreus discloses composite cooling panel layer having the channels formed on the inside face of the part whose outside face is exposed to high temperatures. See Fig. 2.

It would have been obvious in view of Buckreus to use channels formed on the inside face of the part whose outside face is exposed to high temperatures in the cooling panel of Vidal et al, the motivation being to improve heat transfer from the hot surface to the cooling fluid.

7. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vidal et al (6,397,581) in view of Stroobants et al (2004/0182557).

Vidal et al disclose an active cooling panel having the claimed structure with the exception of ribs projecting from the outside face of the plate opposite the higher temperature plate.

Stroobants et al disclose a heat transfer panel layer having ribs projecting from the outside face of the back plate. See Fig. 5.

It would have been obvious in view of Stroobants et al to use ribs projecting from the outside face of the back plate in the cooling panel of Vidal et al, the motivation being to improve the strength of the panel.

8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vidal et al (6,397,581) in view of Chiles et al (5,022,459).

Vidal et al disclose an active cooling panel having the claimed structure with the exception of a sealing layer separating one of the parts into two portions.

Chiles et al disclose a heat transfer panel layer having a sealing layer (38) separating one of the parts into two portions (38, 42). See Fig. 3.

It would have been obvious in view of Chiles et al to a sealing layer separating one of the parts into two portions in the cooling panel of Vidal et al, the motivation being to better seal the panel.

9. Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.


10. Applicant's arguments with respect to claims 1-5 and 7-10 have been considered but are moot in view of the new ground(s) of rejection.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa J. Walberg whose telephone number is 571-272-4790. The examiner can normally be reached on M-F 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Mancene can be reached on 571-272-4930. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3753

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Teresa J. Walberg
Primary Examiner
Art Unit 3753

tjw